

Date:

Grade 7: Math

1.10b: Finding Percents of a Number

- Question how do we find what percentage is 81 out of 85?

$$\frac{\text{Part}}{\text{Whole}} \times 100$$

$$\begin{aligned}\text{Answer: } & \frac{81}{85} \times 100 \\ & = \frac{81}{85} \times \frac{100}{1} \\ & = \frac{8100}{85} \\ & = 95.3\%\end{aligned}$$

- Example:

a) Staples offers discount on bundle of markers worth \$35. If Ms. Philip buys the bundle of markers and saves \$3. What was the discount (in percent)?

b) Amy scored 75 out of 80 on her quiz. What percent did she score?

c) What percentage is 12.5 out of 70

- Calculate the percentage.

- | | | | |
|-----------------|-----------------|------------------|-----------------|
| a. 11 out of 25 | c. 25 out of 48 | e. 125 out of 70 | g. 13 out of 25 |
| b. 3 out of 15 | d. 36 out of 10 | f. 87.5 out of 5 | h. 5 out of 15 |

- Word Problems.

1. Samuel bought a television for \$450. If he paid \$ 35 as tax, what was the tax percent on the TV?
2. A class has 125 students. If there are 65 boy in the class, what percent of the class are boys?
3. In a class there are 125 girls and 45 boys. What percent of the class are girls? [Hint: Find the total number of children in the class]
4. A computer has completed 37 out of 50 tasks. What percent of the work is left?
5. The Simpsons family ordered food at the diner. The bill included \$25 tax charged on the original amount of \$145. What percent of the bill was tax?
6. Katie buys a pair of jeans worth \$65 sold at new price \$45 discount. What was the discount on the jeans? [Hint: Find the discount in dollard first].
7. Sofia is travelling to the zoo, which is 14,000m away from her house. She sleeps for 1575 km while travelling. What percent of the journey was she awake?
8. Frostie Flakes cereal has 23g sugar in a 120g box, while Choco-real cereal has 15g sugar in a 145g box. What cereal has more percentage sugar?
9. Janet bought a television for \$650. If she paid \$ 75 as tax, what was the tax percent on the TV?
10. A band has 425 musicians. There are 120 painists, 45 flutists, 25 percussionists and the remaining are violinists. Find the percentage of each type of musician.
11. In a class there are 55 girls and 25 boys. What percent of the class are girls? [Hint: Find the total number of children in the class]
12. A computer has completed 45 out of 250 tasks. What percent of the work is left?
13. The Simpsons family ordered food at the diner. The bill included \$12 tax charged on the original amount of \$75. What percent of the bill was tax?
14. Katie buys a pair of jeans worth \$85 sold at new price \$35 discount. What was the discount on the jeans? [Hint: Find the discount in dollard first].